



THE
ONTARIO WATER RESOURCES
COMMISSION
Report on a
WATER POLLUTION SURVEY
of the
TOWN OF UXBRIDGE

August, 1965



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THE
ONTARIO WATER RESOURCES
COMMISSION

Report on a
WATER POLLUTION SURVEY
of the
TOWN OF UXBRIDGE

Division of Sanitary Engineering

August 1965

INTRODUCTION

A water pollution survey was performed in the Town of Uxbridge on March 31 and April 1, 1965. The investigation was a follow-up of the water pollution survey performed in April and May of last year, and the appended sample results can be considered supplementary to the former investigation.

During the survey discussions were held with the following persons.

Mr. J. L. Lungair, Municipal Clerk, Town of Uxbridge;
Mr. J. R. Cameron, Works Superintendent;
Mr. E. Long, Sewage Treatment Plant Operator.

PREVIOUS RECOMMENDATIONS & ACTION TAKEN

Various recommendations were made in the previous report concerning contaminated flows in storm sewer discharges, the operation of the sewage treatment plant, and industrial wastes.

Commendable action has been taken by the town in securing the services of Mr. W. T. Dempsey, Consulting Engineer to initiate a pollution control program dealing with the various remaining sources of pollution in the town. Under Mr. Dempsey's direction a program has been initiated of attempting to detect sanitary waste connections to the storm sewer system by the use of dye testing procedures. Various proposals also have been made regarding the sewage treatment

plant. This program should be continued and encouraged as much as possible.

POLLUTION SOURCES

By comparison with the previous survey, it is noted that conditions generally remain the same and comments are made on the sources of pollution.

Municipal Storm Sewers

Sample Point No. PUW 20.8

This is a storm sewer discharge to Uxbridge Brook on the east side of Main Street north. An excessive BOD, solids and coliform content was noted in the samples taken from this discharge. Former results of samples taken from this point have shown BOD and solids contents to be fairly low. The continued high coliform count and the excessive BOD and solids in this sample would indicate some sewage pollution is occurring, although there may be considerable dilution.

Sample Point No. PUW 21.1 W

This sample point is a drain which discharges to the east bank of Uxbridge Brook between Brock and Dominion Streets. The presence of sanitary wastes in this discharge is also indicated by the sample taken from this point. It is understood from Mr. Dempsey's report, that this pollution source is to be eliminated during 1965.

Sample Point No. PUM 21.7 W

This is a discharge to the Middle Branch of Uxbridge Brook on the south side of Mill Street. Since Mr. Dempsey's report indicates that there is no storm sewer outlet at this point, this discharge would appear to be from a private drain. The effluent is limited volume wise; however, a strong sewage waste is indicated visually and from the sample results.

Sewage Treatment Plant

Although the improvements to the sewage treatment plant are being carried out, the treatment efficiency continues to be considerably reduced by toxic chemicals in the sanitary sewage. The report prepared by the Division of Industrial Wastes of this Commission recommends that the plating wastes of Comco Electroplating Company be removed from the sanitary sewer and treated prior to discharge to a storm sewer or open watercourse. This would undoubtedly bring about improvements at the sewage treatment plant. However, it is stressed that this arrangement is satisfactory only on the condition that proper treatment of the chemical waste can be assured before it is discharged to a storm sewer or open watercourse.

Industrial

Intermittent discharges of contaminated waste from the Uxbridge Creamery are still occurring. It was recommended in last year's report that uncontaminated cooling water be separated from the contaminated wastes, thus allowing the contaminated wastes to be pumped to the municipal sanitary sewer, and the cooling water to Uxbridge Brook.

Samples collected from the Fritz W. Glitsch Company outfall to the west branch of Uxbridge Brook did not reveal

counts in excess of Commission objectives.

Private

A slightly high coliform count contained in samples collected from the west branch of Uxbridge Brook particularly in the area of King Street and Brock Street may be indicative of some private waste discharges.

SUMMARY

This report which is supplementary to the pollution survey report of 1964, indicates various remaining sources of pollution. The town has initiated an active pollution control programme. This should be continued and encouraged.

RECOMMENDATIONS

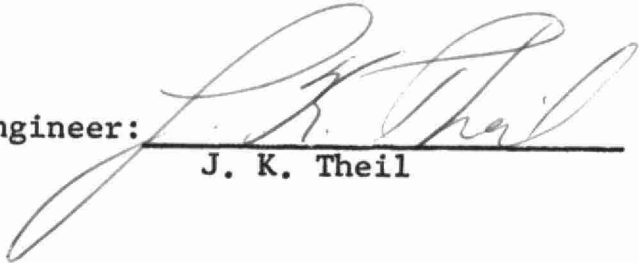
1. The program of detecting and eliminating contaminated flows from the municipal storm sewers should be continued.
2. Efforts should be continued to improve the operation of the sewage treatment plant in order to meet the OWRC objectives for waste discharge. This could be assisted by the enforcement of an industrial waste by-law.

3. The Comco Electroplating Company should ensure proper treatment of its waste before being discharged to a sanitary sewer, storm sewer, or open watercourse.

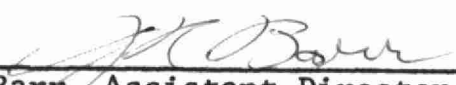
4. Untreated industrial wastes from the Uxbridge Creamery should not be discharged to Uxbridge Brook.

All of which is respectfully submitted,

District Engineer:


J. K. Theil

Approved by:


J. R. Barr, Assistant Director,
Division of Sanitary Engineering.

Prepared by: M. Holy

/mh

TOWN OF UXBRIDGE

STREAM AND OUTFALL SAMPLES

BACTERIOLOGICAL
EXAMINATION

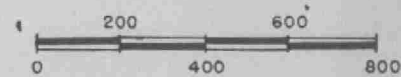
Sample Point No.	Date	Description of Sampling Points	5-Day BOD	S O L I D S			Total Coliforms per 100 ml.
				Total	Susp.	Diss.	
PU 20.6	Mar. 31	Uxbridge Brook 500 ft. down- stream of STP - Cyanide 0 Chrome 0.0 - Copper 0.1	1.2	220	1	219	8,800
PU 20.7-T	Mar. 31	Outfall from STP - Cyanide 0.7 Chrome 0.05, Copper 0.9, Ether Solubles 28	36	522	96	426	290,000
PU 20.7-S	Mar. 31	STP by-pass outfall		NO FLOW			
PU 20.8-W	Mar. 31	Storm sewer to S. bank of Uxbridge Brook E. side of Main Street north	21	1,588	816	772	370,000
PU. 21.0	Mar. 31	Uxbridge Brook at Dominion Street Bridge	2.4	258	9	249	530
PU 21.0-I	Mar. 31	Industrial waste outfall from Uxbridge Tannery		NO FLOW			
PU 21.1-W	Mar. 31	Storm drain to E.bank of Uxbridge Brook between Brock & Dominion St.	32	2,492	1,480	1,012	140,000
PU 21.3	Mar. 31	Uxbridge Brook above Poplar St.	1.3	254	4	250	1,600
PU 21.5	Mar. 31	Uxbridge Brook at Bascom St.	1.7	258	2	256	220

TOWN OF UXBRIDGE (cont'd)

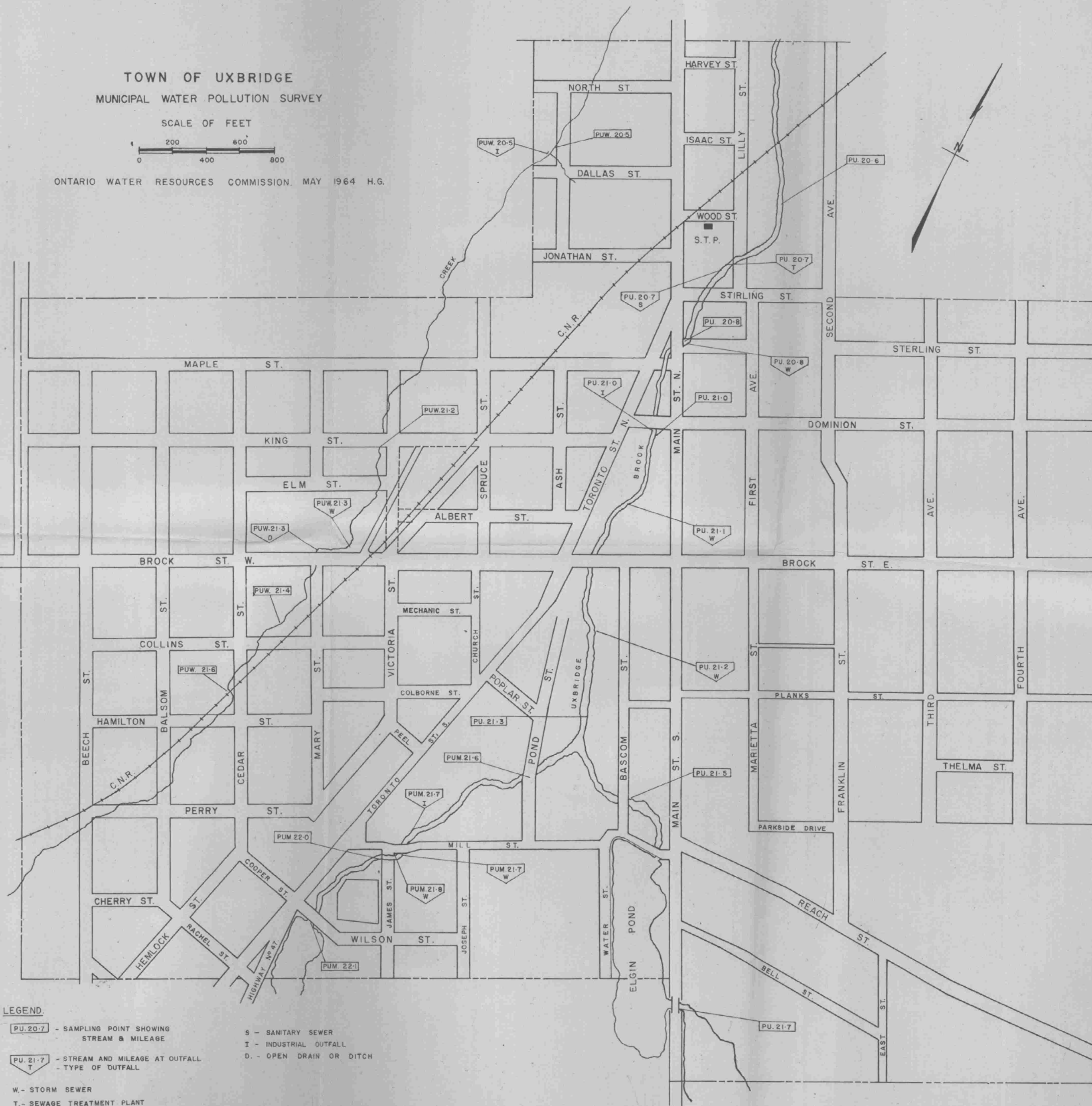
Sample Point No.	Date	Description of Sampling Points	5-Day BOD	S C L I D S			BACTERIOLOGICAL EXAMINATION
				Total	Susp.	Diss.	Total Coliforms per 100 ml.
PU 21.7	Mar.31	Uxbridge Brook at Main St. South					22
PUM 21.6	Mar.31	Middle branch of Uxbridge Brook at Pond Street	2.0	262	11	251	1,840
PUM 21.7-I	Apr. 1	Discharge from Uxbridge Creamery to middle branch of Uxbridge Brook	10	478	209	269	40,000
PUM 21.7-W	Mar.31	Drain to E.bank of middle branch, S. side of Mill Street	72	638	82	556	940,000
PUM 21.8-W	Mar.31	Storm sewer to N. bank, under Mill St.		NO FLOW			
PUM 22.0	Mar.31	Middle branch of Uxbridge Brook at James Street	1.6	274	23	251	190
PUM 22.1	Mar.31	Middle branch of Uxbridge Brook at Cooper Street					210
PUW 20.5	Mar.31	West branch of Uxbridge Brook 200 ft. below Glitsch outfall	1.6	302	19	283	2,200
		Ether Solubles 6.7					
PUW 20.5-I	Mar.31	Drain from Fritz W. Glitsch Co. to west branch of Uxbridge Brook	8.6	286	5	263	0
		Ether Solubles 1.7					
PUW 21.2	Mar.31	West branch of Uxbridge Brook at King Street	2.6	304	51	253	2,800
PUW 21.3-W	Mar.31	Storm sewer at N. side of Brock St. to E. bank of the west branch	1.5	248	2	246	1,000
PUW 21.3-D	Mar.31	Ditch at N. side of Brock St. to W. bank of west branch		NO FLOW			
PUW 21.4	Mar.31	West branch of Uxbridge Brook upstream from Brock St. bridge	2.3	318	15	303	3,900

TOWN OF UXBRIDGE MUNICIPAL WATER POLLUTION SURVEY

SCALE OF FEET



ONTARIO WATER RESOURCES COMMISSION. MAY 1964 H.G.



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